EITEL-Mc CULLOUGH, INC.

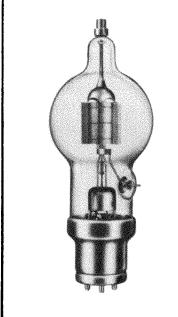
SAN BRUNO, CALIFORNIA

LOW-MU TRIODE

MODULATOR OSCILLATOR AMPLIFIER

GENERAL CHARACTERISTICS

ELECTRICAL										
Filament: Thoriated tungsten Voltage 5.0 volts Current 10.5 amperes										
Amplification Factor (Average) 14										
Direct Interelectrode Capacitances (Average)										
Grid-Plate 3.1 μμf										
Grid-Filament 3.7 μμf										
Plate-Filament 0.7 $\mu\mu$ f										
Transconductance ($1_b=350 \text{ ma.}$, $E_b=3000$, $e_c=-130$) 2650 μ mhos										
Frequency for Maximum Ratings 40 mc										
MECHANICAL										
Base 4 pin, No. 5001B										
Basing RMA type 2N										
Maximum Overall Dimensions:										
Length 10.125 inches										
Diameter 3.813 inches										



ounces

pounds

AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR Class B

	TYPICAL C	PERATION-	MAX. RATING	
D-C Plate Voltage	1500	2000	3000	3000 volts
MaxSignal D-C Plate Current, per tube*	•	•	•	350 ma.
Plate Dissipation, per tube*	•	•	•	250 watts
D-C Grid Voltage (approx.)	-4 0	-80	<i>–</i> 175	volts
Peak A-F Grid Input Voltage	770	800	840	volts
Zero-Signal D-C Plate Current	200	150	100	ma.
MaxSignal D-C Plate Current	700	650	500	ma.
MaxSignal Driving Power (approx.)	32	28	17	watts
Effective Load, Plate-to-Plate	3700	6150	13000	ohms
MaxSignal Plate Power Output	580	800	1000	watts
*Averaged over any sinusoidal audio frequency cycle.				

RADIO FREQUENCY POWER AMPLIFIER AND OSCILLATOR

Net weight -

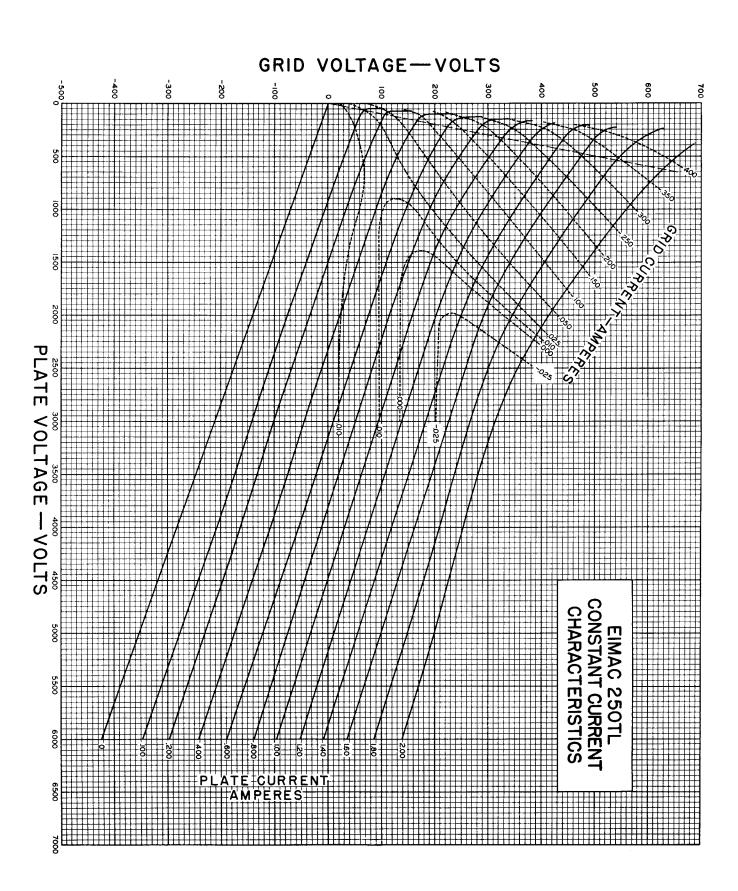
Shipping weight (Average)

Class-C *Telegraphy (Key down conditions without modulation)

									TYPICAL	OPERATION-1	TUBE	MAX. RATI	NG
D-C Plate Voltage	-	-	-	-	-	-	-	-	2000	3000	4000	4000 vo	olts
D-C Plate Current	-	-	-	-	-	-	-	-	350	335	310	350 r	ma.
D-C Grid Current	-	-	-	-	-	-	-	-	45	45	40	50 r	ma.
D-C Grid Voltage	-	-	-	-	-	-	-	-	-200	- 350	-500	VC	olts
Plate Power Output	-	-	-	-	-	-	-	-	4 55	750	1000	wa	atts
Plate Input	-	-	-	-	-	-	-	-	700	1000	1250	wa	atts
Plate Dissipation -	-	-	-	-	-	-	-	-	245	250	250	250 wa	atts
Peak R. F. Grid Input	t V	olta	ge,	(ap	pro	x .)	-	-	5 7 5	7 20	900	VC	olts
Driving Power, (app	rox	.)	-	-	-	-	-	•	22	29	33	wa	itts

^{*}The above figures show actual measured tube performance, and do not allow for variations in circuit losses.







DRIVING POWER vs. POWER OUTPUT

The three charts on this page show the relationship of plate efficiency, power output and grid driving power at plate voltages of 2000, 3000 and 4000 volts. These charts show combined grid and bias losses only. The driving power and power output figures do not include circuit losses. The plate dissipation in watts is indicated by $P_{\rm p}$.

Points A, B, and C are identical to the typical Class C operating conditions shown on the first page under 2000, 3000, and 4000 volts respectively.

